

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00629\_1 ~ C1216XT-10LXXK-NDEX-TCY-SOXXMW.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST] SP-00629\_1\_M-10L

[TESTLAB] VLS-245-981

[MANUFAC] Spectrum Lighting

[ISSUE DATE] 9/20/2017

[UPDATE] 3/9/2018

[LUMCAT] C1216XT-10L-xxK-ND-EX-TCY-SO

[LUMINAIRE] Nom. 12" Diam. x 16" H. Accent Biaxial Adjustable Downlight Cylinder

[OTHER] Internal Reflector, Narrow Beam

[OTHER] Solite Lens, Flush with Lower Trim

[OTHER] 25.1 Degree Beam Angle

[OTHER] Aimed at 0 Degrees

[LAMPCAT] N/A, 19mm LES

[LAMP] N/A, 83 CRI

[OTHER] Total Luminaire Watts is approximate

[OTHER] LEDXT lumen output is the same for all available CCT's

[OTHER] This report prepared by Spectrum Lighting, scaled from 30L

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	861
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	95
Total Luminaire Watts	9.1
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.42
Spacing Criterion (90-270)	0.42
Spacing Criterion (Diagonal)	0.48
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.44 ft (Diameter)
Luminous Width (90-270)	0.44 ft (Diameter)
Luminous Height	0.00 ft

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00629\_1 ~ C1216XT-10LXXK-NDEX-TCY-SOXXMW.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	11881	11951	12184
55	5341	5285	5573
65	3100	3163	3349
75	2572	2736	2615
85	1636	1857	2011

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**CANDELA TABULATION**

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>	<u>202.5</u>
<b>0</b>	1874.939	1874.939	1874.939	1874.939	1874.939	1874.939	1874.939	1874.939	1874.939	1874.939
<b>5</b>	1620.077	1661.715	1624.540	1657.205	1636.108	1633.103	1651.898	1619.902	1661.551	1629.894
<b>10</b>	1139.031	1172.400	1125.647	1170.407	1134.566	1120.876	1162.497	1126.052	1176.232	1132.500
<b>15</b>	719.379	729.051	707.010	732.689	709.174	691.824	715.589	708.727	728.116	697.485
<b>20</b>	479.098	473.907	473.014	486.282	472.130	456.989	465.814	474.207	474.376	455.501
<b>25</b>	374.449	370.672	372.881	377.339	370.874	362.388	363.697	369.617	365.588	357.217
<b>30</b>	320.847	325.106	323.443	326.731	321.282	317.989	318.132	314.974	312.655	306.190
<b>35</b>	260.421	269.203	264.384	271.375	262.927	259.909	261.773	252.217	253.961	245.181
<b>40</b>	187.552	193.956	188.997	195.044	190.525	188.946	186.700	177.944	182.026	176.970
<b>45</b>	119.871	123.948	120.580	123.553	122.926	123.611	121.974	116.630	118.321	115.191
<b>50</b>	72.618	72.080	71.881	75.296	74.747	74.528	74.017	74.026	75.610	71.319
<b>55</b>	43.710	43.772	43.253	44.699	45.609	45.082	45.769	45.723	47.142	45.694
<b>60</b>	27.843	27.855	28.030	27.311	29.249	31.264	30.557	30.722	31.438	30.759
<b>65</b>	18.694	19.680	19.075	19.072	20.196	23.233	22.854	22.378	21.944	23.269
<b>70</b>	14.103	14.090	13.904	14.477	14.033	17.682	18.747	17.172	17.834	17.815
<b>75</b>	9.499	9.997	10.103	10.038	9.656	13.468	14.654	13.127	13.948	13.530
<b>80</b>	6.020	5.948	5.957	6.426	6.655	11.458	11.224	10.791	10.817	10.460
<b>85</b>	2.034	2.089	2.309	1.996	2.501	6.743	6.823	6.506	6.616	6.961
<b>90</b>	0.515	0.447	0.681	0.771	0.893	3.490	3.142	3.484	2.822	4.171
<b>95</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>100</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>105</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>110</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>115</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>120</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>125</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>130</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>135</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>140</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>145</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>150</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>155</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>160</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>165</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>170</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>175</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>180</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

**Vert. Horizontal Angles**

	<u>225.0</u>	<u>247.5</u>	<u>270.0</u>	<u>292.5</u>	<u>315.0</u>	<u>337.5</u>	<u>360.0</u>
<b>0</b>	1874.939	1874.939	1874.939	1874.939	1874.939	1874.939	1874.939
<b>5</b>	1688.151	1637.612	1674.372	1675.220	1625.327	1672.382	1620.077
<b>10</b>	1181.341	1141.472	1162.010	1161.260	1137.237	1180.176	1139.031
<b>15</b>	714.605	707.124	705.634	701.057	705.317	730.393	719.379
<b>20</b>	457.997	464.838	458.506	452.704	464.576	475.932	479.098
<b>25</b>	358.755	364.077	361.487	357.694	364.576	372.157	374.449
<b>30</b>	311.305	308.460	311.036	313.266	313.067	321.038	320.847
<b>35</b>	251.686	247.792	251.740	254.001	254.062	263.722	260.421
<b>40</b>	181.417	176.545	182.354	185.470	183.920	190.497	187.552
<b>45</b>	117.845	114.428	117.515	120.058	119.303	120.775	119.871

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<b>50</b>	72.821	73.403	72.262	71.955	72.161	72.981	72.618
<b>55</b>	47.666	46.358	46.698	42.912	43.987	45.033	43.710
<b>60</b>	31.863	31.212	31.237	28.854	28.591	29.026	27.843
<b>65</b>	22.813	22.552	21.968	20.337	19.450	19.640	18.694
<b>70</b>	17.619	16.709	16.718	14.584	13.743	13.887	14.103
<b>75</b>	14.130	13.123	13.152	8.371	10.322	9.573	9.499
<b>80</b>	10.367	10.383	9.818	5.900	5.978	5.797	6.020
<b>85</b>	6.674	6.067	5.745	1.765	1.954	2.215	2.034
<b>90</b>	3.234	3.583	3.277	0.619	0.677	0.623	0.515
<b>95</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>100</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>105</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>110</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>115</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>120</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>125</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>130</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>135</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>140</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>145</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>150</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>155</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>160</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>165</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>170</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>175</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>180</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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Zone	Lumens	%Lamp	%Fixt
0-20	350.14	N.A.	40.70
0-30	524.09	N.A.	60.90
0-40	682.64	N.A.	79.30
0-60	821.24	N.A.	95.40
0-80	855.48	N.A.	99.30
0-90	860.67	N.A.	99.90
10-90	718.40	N.A.	83.40
20-40	332.49	N.A.	38.60
20-50	428.03	N.A.	49.70
40-70	160.30	N.A.	18.60
60-80	34.24	N.A.	4.00
70-80	12.55	N.A.	1.50
80-90	5.18	N.A.	0.60
90-110	0.55	N.A.	0.10
90-120	0.55	N.A.	0.10
90-130	0.55	N.A.	0.10
90-150	0.55	N.A.	0.10
90-180	0.55	N.A.	0.10
110-180	0.00	N.A.	0.00
0-180	861.22	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	142.27
10-20	207.88
20-30	173.95
30-40	158.55
40-50	95.54
50-60	43.07
60-70	21.69
70-80	12.55
80-90	5.18
90-100	0.55
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

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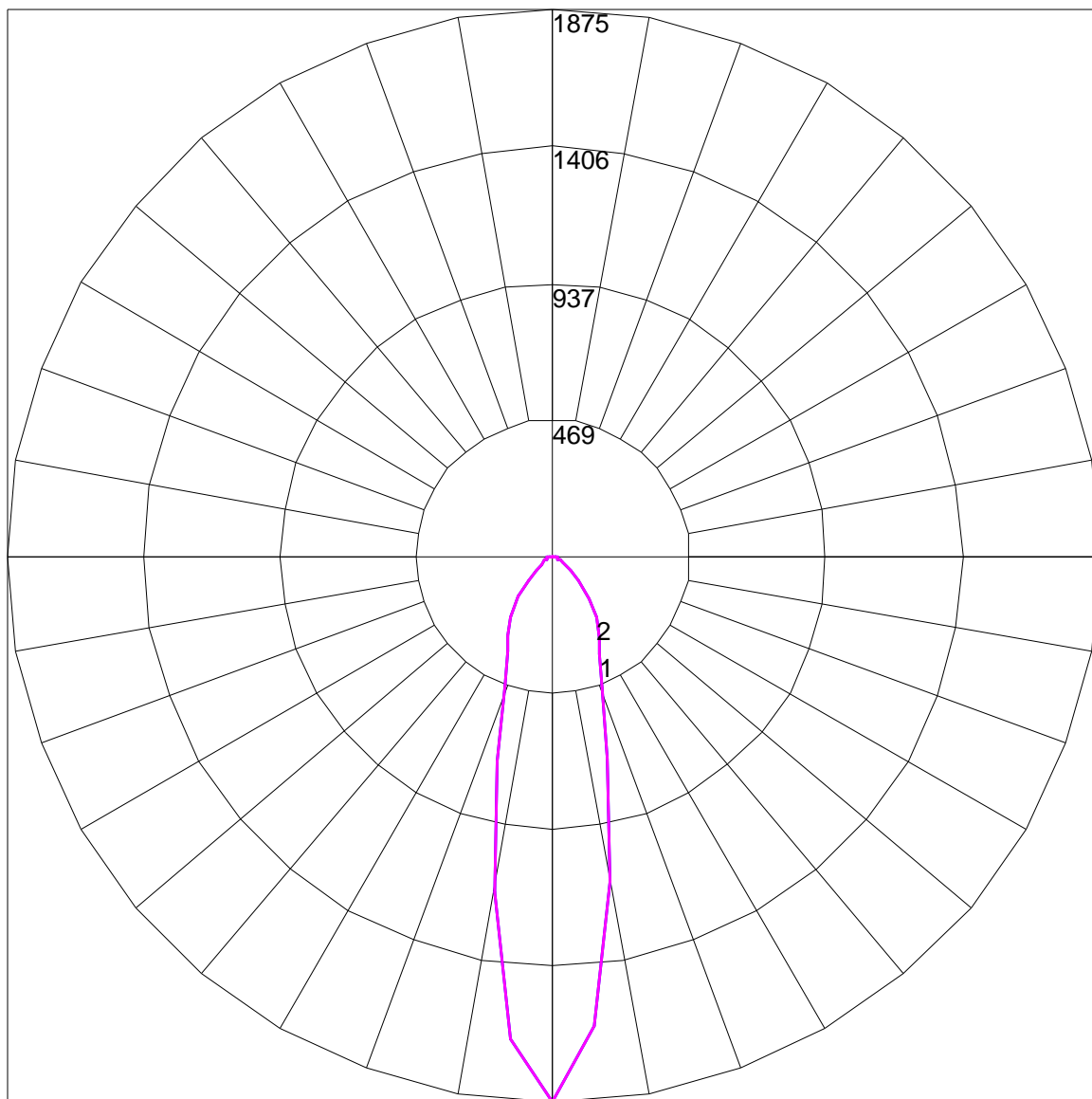
## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	113	110	107	104	110	107	105	103	103	101	99	99	98	96	96	95	94	92
2	106	101	96	93	104	99	95	92	96	92	90	93	90	88	90	88	86	84
3	100	93	88	83	98	92	87	83	89	85	81	87	83	80	84	81	79	77
4	95	87	81	76	93	86	80	76	83	79	75	81	77	74	79	76	73	71
5	90	81	75	70	88	80	74	70	78	73	69	76	72	68	75	71	68	66
6	85	76	69	65	84	75	69	65	73	68	64	72	67	64	71	67	63	62
7	81	71	65	61	80	71	65	60	69	64	60	68	63	60	67	63	59	58
8	77	67	61	57	76	67	61	57	66	60	56	65	60	56	64	59	56	54
9	74	64	58	53	73	63	57	53	62	57	53	61	56	53	60	56	53	51
10	70	61	55	51	69	60	54	50	59	54	50	58	54	50	58	53	50	49

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POLAR GRAPH



Maximum Candela = 1874.939 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Vertical Plane Through Horizontal Angles (0 - 180)